

# CHAPTER 6

## Level Assignments

## I. CADD LEVEL ASSIGNMENTS

Level	Feature Display	Items Displayed	Corres. Level
1	Not Plotted	Reference File Frames	*
2	Alignment	Centerline, baseline, survey line, stationing, roadway name..	42
3	Roadway Profile (Existing)	Profile of roadway, vertical curve data, profile elevations and notes, and plan roadway dimensioning.	43
4	Vegetation	Existing trees, brush, hedges, forests, and associated text.	23
5	Water	Existing lakes, rivers, streams, ditches, marshes, swamps, ponds and associated text.	*
6	Right of Way (Existing)	Right of way, access control fencing, right of way markers, easements, associated text.	40
7	Pavement Markings (existing)	Parking marking lines, letters and symbols, and raised pavement markers.	9
8	Non-Highway Improvements	Buildings, fences, parking lots, advertising signs, mailboxes and associated text.	*
9	Pavement Markings (Proposed)	Parking marking lines, letters and symbols, raised pavement markers and delineators.	7
10	Political Boundaries	County lines, municipal boundaries, township lines, state lines.	*
11	Traffic Signals (Existing)	Traffic signal plan to be shown on main roadway drawing and detail sheets	13
12	Private Boundaries (Existing)	Property lines, from property pins, iron pipe markers, survey markers, section corners, same ownership symbol, owners names, and property line symbol.	*
13	Traffic Signals (Proposed)	Traffic signal plan to be shown on main roadway drawing and detail sheets	11
14	Utilities (Existing)	Power poles, telephone poles, light poles, traffic signals from survey data, fire hydrants, valve vaults, sanitary sewer manholes, above ground splice box, buffalo box, handholes, control cabinets.	44
15	Highway Lighting (Existing)	Lighting for roadways, rest areas, weigh stations, navigation, aviation obstructions, signing and underpasses.	17

<b>Level</b>	<b>Feature Display</b>	<b>Items Displayed</b>	<b>Corres. Level</b>
16	Topography Notes (Existing)	Notes, labels, and object identification text.	55
17	Highway Lighting (Proposed)	Lighting for roadways, rest areas, weigh stations, navigation, aviation obstructions, signing and underpasses.	15
18	Utilities Notes (Existing)	Notes, labels and object identification of utility items.	45
19	Traffic Systems Center (Existing) Soil Borings	Existing Traffic Systems Center details (Dist. 1 only). Soil boring details, plan and profile.	21
20	Alignment Notes (Existing)	Horizontal curve data and notes, ties, benchmarks, PC & PT Stations, and Station Equations.	24
21	Erosion & Sediment Control (Temp Items) Traffic Systems Center (Proposed)	Temp. ditch checks, erosion control fence, clearing and grading limits, dikes, temp. fence, inlet & pipe protect., perimeter erosion barrier, sediment basins. Proposed Traffic Systems Center details (Dist. 1 only).	19
22	Drainage Notes (Existing)	Notes, labels, and object identification of drainage structures.	51
23	Landscaping Details (Proposed)	Roadside development plan details: Trees, hedges, seeding, mulch, sodding, mow line, contour mounding line, fiber mat, erosion control blanket.	4
24	Alignment Notes (Proposed)	Horizontal curve data and notes, ties, benchmarks, PC & PT Stations, and Station Equations.	20
25	Roadside Features (Existing)	Minor pavement, sidewalks, parking lots, private entrances, commercial entrances, parking meters.	47
26	Contours	Ground contours, proposed construction limits.	*
27	Edge of Pavement (Existing)	Existing edge of pavement for dedicated roadways (streets, roads, alleys, etc.).	29
28	Roadway Plan	Major pavement, medians, curbs, curbs and gutters, gutters, shoulders, and guardrail.	46
29	Edge of Pavement (Proposed)	Proposed edge of pavement for dedicated roadways (streets, roads, alleys, etc.).	27
30	Aerial Survey Control Points	Aerial Surveys Horizontal and Vertical Control Points, Principal Points (PPs).	*
31	Aerial Survey Legend	Aerial Survey Legend	*

<b>Level</b>	<b>Feature Display</b>	<b>Items Displayed</b>	<b>Corres. Level</b>
32	Aerial Survey Spot Elevations	Aerial Surveys Ground Spot Elevations, DTM Mass Points.	*
33	Aerial Survey Grid	State Plane Grid	*
34	Aerial Survey Map Limits ROW Dim (Existing)	Aerial Surveys Map Borders (limits) Existing ROW dimensioning.	36
35	General Details and Plan Format Sheet Cells	Detail drawings, north arrow, match lines, plan sheet, plan and profile sheet, IDS sheet, ROW plat sheet, plat of highway sheet, premise plat sheet, excess ROW plat sheet, ROW plan sheet, typical sections.	*
36	Aerial Survey Cross Section Points ROW Dim (Proposed)	Cross section points and triangles. Proposed ROW dimensioning.	34
37	Existing Drainage Plan/Profile	Catch basins, manholes, inlets, ditch checks, end sections, headwalls, pipe culverts, drainage boundary line, drainage summit symbol, ditch flow line, special ditch profile, riprap, paved ditch, aggregate ditch, sewer profile.	52
38	Railroad (Existing)	Control box, crossing gates, railroad tracks, railroad signal, overpasses, grade crossings.	48
39	Structures (Existing)	Bridges, box culverts	50
40	Right of Way (Proposed)	Right of way, access control fencing, right of way markers, easements and associated text.	6,59
41	Coordinate Data	Coordinates, north and east.	*
42	Alignment (Proposed)	Centerline, baseline, survey line, stationing, roadway name..	2
43	Roadway Profile	Profile of roadway, vertical curve data, profile elevations and notes, and plan roadway dimensioning.	3
44	Utilities (Proposed)	Power poles, telephone poles, light poles, traffic signals from survey data, fire hydrants, valve vaults, sanitary sewer manholes, above ground splice box, buffalo box, handholes, control cabinets.	14
45	Utility Notes (Proposed)	Notes, labels and object identification of utility items.	18

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46	Roadway Plan (Proposed)	Medians, curbs, curbs and gutters, gutters, shoulders, and guardrail.	28
47	Roadside Features (Proposed)	Minor pavement, sidewalks, parking lots, private entrances, commercial entrances, parking meters.	25
48	Railroads (Proposed)	Control box, crossing gates, railroad tracks, railroad signal, overpasses, grade crossings.	38
49	Construction Signing and Detail Drawings (Proposed)	Detours, construction warning signs, detail drawings, and area patterns for miscellaneous pavements.	*
50	Structures (Proposed)	Bridges, box culverts	39
51	Drainage Notes (Proposed)	Notes, labels, and object identification of drainage structures.	22
52	Drainage Plan/Profile (Proposed)  Erosion & Sediment Control	Catch basins, manholes, inlets, ditch checks, end sections, headwalls, pipe culverts, drainage boundary line, drainage summit symbol, ditch flow line, special ditch profile, sewer profile. Aggregate ditch, paved ditch, riprap and fabric formed concrete revetment mat.	37
53	Adjustment Items (Proposed)	Notations for drainage and/or utility items to be adjusted.	*
54	Removal Items (Proposed)	Hatch pattern or tic mark pattern indicating item to be removed; (i.e., Sidewalk or median removal)	*
55	Roadway Plan Notes (Proposed)	Notes, labels and object identification for proposed roadway.	16
56	Aerial Surveys	Centerlines, x-section lines, break lines and shear diagrams.	*
57	Underground Drainage & Utilities (Existing)	Existing sanitary sewer, underground pipe lines, underground cables, pipe underdrains, storm sewers.	58
58	Underground Drainage & Utilities (Proposed)	Proposed sanitary sewer, underground pipe lines, underground cables, pipe underdrains, storm sewers.	57
59	ROW Plans	Temporary easements and notes (proposed).	40
60	Unassigned	Used for Districts, GEOPAK and Aerial Surveys	*
61	Unassigned	Used for Districts, GEOPAK and Aerial Surveys	*
62	Unassigned	Used for Districts, GEOPAK and Aerial Surveys	*
63	Unassigned	Used for Districts, GEOPAK and Aerial Surveys	*